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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/678,558	10/03/2003	Thumplasseril V. John	IFF-63	2540		
	7590 06/18/200 NAL FLAVORS & FR	EXAMINER				
521 WEST 57T	TH ST	CHEN, CATHERYNE				
NEW YORK, N	NY 10019		ART UNIT	PAPER NUMBER		
			1655			
			MAIL DATE	DELIVERY MODE		
			06/18/2009	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		Application No. Applica		Applicant(s)	icant(s)				
		10/678,558		JOHN ET AL.					
Office Action Summary			Examiner		Art Unit				
			CATHERYN	E CHEN	1655				
 Period for	The MAILING DATE of this commun Reply	ication appe	ears on the c	over sheet with the o	correspondence ad	ddress			
WHICH - Extensi after SI - If NO p - Failure Any rep	RTENED STATUTORY PERIOD F IEVER IS LONGER, FROM THE M ons of time may be available under the provisions X (6) MONTHS from the mailing date of this comn eriod for reply is specified above, the maximum statoreply within the set or extended period for reply by received by the Office later than three months a patent term adjustment. See 37 CFR 1.704(b).	IAILING DA of 37 CFR 1.136 nunication. atutory period will will, by statute, c	TE OF THIS  (a). In no event  Il apply and will ecause the applica	COMMUNICATION however, may a reply be tin xpire SIX (6) MONTHS from tion to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	•			
Status									
1)⊠ 5	Responsive to communication(s) file	ed on <i>15 Ma</i> r	v 2009						
'=	Responsive to communication(s) filed on <u>15 May 2009</u> .  This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
′=		′—			secution as to the	e merite is			
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
O	losed in accordance with the practi	oc under Ex	parte Qua	7C, 1000 O.B. 11, 40	00 0.0. 210.				
Dispositio	n of Claims								
4) <b>×</b> 0	Claim(s) <u>3,<i>4,40 and 41</i> is/are pendi</u> r	ng in the app	olication.						
4	4a) Of the above claim(s) is/are withdrawn from consideration.								
5) <u> </u>	5) Claim(s) is/are allowed.								
6)× C	6)⊠ Claim(s) <u>3-4, 40-41</u> is/are rejected.								
· ·	Claim(s) is/are objected to.								
•	Claim(s) are subject to restric	ction and/or	election rea	uirement.					
			·						
Applicatio	n Papers								
9)☐ The specification is objected to by the Examiner.									
10) <u></u> ⊤ا	he drawing(s) filed on is/are:	: a)∏ accep	pted or b)□	objected to by the	Examiner.				
Д	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
F	Replacement drawing sheet(s) including	the correctio	n is required	if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).			
11)□ T	he oath or declaration is objected to	by the Exa	ıminer. Note	the attached Office	Action or form P	TO-152.			
Priority un	der 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Pation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	_	)  Interview Summary Paper No(s)/Mail Da )  Notice of Informal F )  Other:	ate				

### **DETAILED ACTION**

Currently, Claims 3-4, 40-41 are pending. Claims 3-4, 40-41 are examined on the merits. Claims 1-2, 5-39, 42-50 are canceled.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 15, 2009 has been entered.

The declaration of Thumplasseril V. John, PhD. filed May 15, 2009 has been considered.

### Election/Restrictions

Applicant's election without traverse of the species tingling sensate, spilanthol, in the reply filed on Feb. 6, 2008 is acknowledged.

## Response to Arguments

The declaration of Thumplasseril V. John, PhD. has been considered; however, it does not overcome the rejections. As evident in Applicant's Specification, the mixtures of alkadienamides are extractions from one of the Piper species (page 3, paragraph 4).

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Black pepper extract is one of the Piper species; therefore, the mixtures of alkadienamides would contain the claimed mixture.

## Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 3-4, 40-41 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakatsu et al. (US 6780443 B1) for the reasons set forth in the previous Office Action, which is set forth below. All of Applicant's arguments regarding this ground of rejection have been fully considered but are not persuasive.

Nakatsu et al. teaches from about 0.001% by weight to about 10% by weight of a tingling sensate substance (column 10, lines 9-12) of spilanthol, Saanshool-I, Saanshool-II and Sanshoamide, Black pepper extract, which inherently contain alkadienamides (column 3, lines 7-12).

Applicant argues that the reference includes other ingredients.

In response to Applicant's argument, the language of the claim is "comprising," thus other ingredients are not excluded.

Applicant argues that black pepper extract would not contain the alkadienamides claimed.

In response to Applicant's argument that black pepper extract from Piper nigrum does not contain the claimed alkadienamides, the Specification on page 3, last

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paragraph indicated that the alkadienamides can be extracted from Piper species.

Black pepper or Piper nigrum is a species of Piper; thus, black piper would inherently contain a mixture of the claimed alkadienamides.

Applicant argues that tingling sensate of spilanthol is not taught.

In response to Applicant's argument, spilanthol is taught (Abstract and column 3, line 12).

# Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 3-4, 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakatsu et al. (US 6780443 B1) for the reasons set forth in the previous Office Action, which is set forth below. All of Applicant's arguments regarding this ground of rejection have been fully considered but are not persuasive.

Nakatsu et al. teaches from about 0.001% by weight to about 10% by weight of a tingling sensate substance (column 10, lines 9-12) of spilanthol, Saanshool-I, Saanshool-II and Sanshoamide, Black pepper extract (column 3, lines 7-11), which intrinsically contain alkadienamides of N-isobutyl-E2, E4, decadienamide, N-isobutyl-E2, E4-undecadienamide, N-pyrollidyl-E2, E4-decadienamide, N-piperidyl-E2, E4-decadienamide (see Applicant's Specification, page 3, last paragraph). However, it does not teach all of the claimed concentrations.

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The reference also does not specifically teach adding the ingredients in the amounts claimed by applicant. The amount of a specific ingredient in a composition is clearly a result effective parameter that a person of ordinary skill in the art would routinely optimize. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955). Thus, optimization of general conditions is a routine practice that would be obvious for a person of ordinary skill in the art to employ. It would have been customary for an artisan of ordinary skill to determine the optimal amount of each ingredient to add in order to best achieve the desired results. Thus, absent some demonstration of unexpected results from the claimed parameters, this optimization of ingredient amount would have been obvious at the time of applicant's invention.

Applicant argues that tingling sensate of spilanthol is not taught.

In response to Applicant's argument, spilanthol is taught (Abstract and column 3, line 12).

Applicant argues that black pepper extract from Piper nigrum does not contain the claimed alkadienamides.

In response to Applicant's argument that black pepper extract from Piper nigrum does not contain the claimed alkadienamides, the Specification on page 3, last paragraph indicated that the alkadienamides can be extracted from Piper species.

Black pepper or Piper nigrum is a species of Piper; thus, black piper would inherently contain a mixture of the claimed alkadienamides.

#### Conclusion

No claim is allowed.

### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Catheryne Chen whose telephone number is 571-272-9947. The examiner can normally be reached on Monday to Friday, 9-5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Michael V. Meller/

Primary Examiner, Art Unit 1655